

CLAIM AMENDMENTS

Claim 1

Line 2, after "which" delete "have", and insert -has-.
Line 3, after "eliminates" insert -initial-.

Claim 2

Line 5, after "mixtures", insert -, and said additives
reduce or eliminate initial irreversible capacity loss of said
cells-.

Claim 7

Cancel claim 7.

Claim 8

Cancel claim 8.

Claim 9

Cancel claim 9.

Claim 10

Line 1, after "1", delete "to 6", and insert -or 2-.

Claim 11

Cancel claim 11.

Claim 12

Cancel claim 12..

CLAIMS

Claim 1 (currently amended).

A cathode composition for use in the cathode of lithium-ion cells, which ~~have~~ has a lithiated cathode material and a lithium compound additive therein, and said additive reduces or eliminates initial irreversible capacity loss of said cells.

Claim 2 (currently amended).

A cathode composition for use in the cathode of lithium-ion cells which has a lithiated cathode material and a lithium compound additive therein, which additive is selected from a group comprising: lithium carbonate, lithium sulfite, lithium oxide, lithium nitride, lithium borate, lithium fluoride, lithium oxolate, and their mixtures, and said additives reduce or eliminate initial irreversible capacity loss of said cells.

Claim 3.

A cathode composition as defined in Claim 1 or 2 in which said lithium compound additive is present in the range of 0.1% to 10% by weight.

Claim 4

A cathode composition as defined in Claim 1 in which, said cathode composition includes:

- a. Polyvinylidene Fluoride/Hexafluoropropylene
- b. Plasticizer or an electrolyte
- c. LiCoO_2
- d. Li_2Co_3
- e. Super-P carbon

Claim 5.

A cathode composition as defined in Claim 1 or 2 in which said composition contains a lithium compound additive in the range molecularly equivalent to 2% to 40% of the lithium ions contained in the lithiated cathode material.

Claim 6.

A cathode composition for lithium-ion cells as described in Claim 1, in which said lithium compound additive contains more than 10% of lithium by weight.

Claim 7. (Cancelled).

Claim 8. (Cancelled).

Claim 9. (Cancelled).

Claim 10. (Currently amended).

A lithium-ion cell as described in Claims 1 ~~to 6~~ or 2, which has balanced capacities of electrodes.

Claim 11. (Cancelled).

Claim 12. (Cancelled).